SERVICING & COMMISSIONING MANUAL FOR AMBIRAD VISION® VSO & VSXO RANGE OF RADIANT TUBE HEATERS

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WARNINGS

AmbiRad equipment must be installed and maintained in accordance with the relevant provisions of the Gas Safety (Installations and Use) Regulations 1998 for gas fired products. Due account should also be taken of any obligations arising from the Health and Safety at Works Act 1974 or relevant codes of practice. In addition the installation must be carried out in accordance with the current IEE wiring regulations (BS 7671), BS 6896 (Industrial & Commercial) and any other relevant British Standards and Codes of Practice by a qualified installer. All external wiring MUST comply with the current IEE wiring regulations.

Introduction.

Welcome to the new range of high efficiency AmbiRad Vision radiant tube heaters. Local regulations may vary in the country of use and it is the installers responsibility to ensure that such regulations are satisfied.

All installation, assembly, commissioning and service procedures must be carried out by suitably qualified and competent persons to the statutory regulations in the country of use.

When assembling, installing, commissioning and servicing is undertaken on radiant tube heaters specified in these instructions, due care and attention is required to ensure that working at height regulations are adhered to at the mounting heights specified.

***PLEASE READ** this document prior to installation to familiarise yourself with the components and tools you require at the various stages of assembly.*

All Dimensions shown are in mm unless otherwise stated.

The manufacturer reserves the right to alter specifications without prior notice.

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1. Installation Requirements.

Isolate any electrical supply to the heater and controller before proceeding.

1.1 Health and Safety

AmbiRad heaters must be installed in accordance with the relevant provisions of the Gas Safety (Installations and Use) Regulations 1998. Due account should also be taken of any obligations arising from the Health and Safety at Works Act 1974 or relevant codes of practice. In addition the installation must be carried out in accordance with the current IEE wiring regulations (BS 7671), BS 6896 (Industrial & Commercial) and any other relevant British Standards and Codes of Practice by a qualified installer. Isolate all electrical supplies to the heater & controller before proceeding.

For your own safety we recommend the use of safety boots and leather faced gloves when handling sharp or heavy items. The use of protective eye wear is also recommended.

1.2 Model Definitions

**VSOUT = ** AmbiRad Vision U Tube Unitary heater with painted induced burner, ID Fan, aluminised steel reflectors, end caps, insulation, tube over shields, painted canopies and optional end covers.

**VSOUH = ** AmbiRad Vision U Tube Herringbone heater with painted induced burner, Damper, aluminised steel reflectors, end caps, insulation, tube over shields, painted canopies and optional end covers.

**VSXO = ** AmbiRad Vision High efficiency U Tube heater with forced burner, recuperative heat exchanger, aluminised steel reflectors, end caps, insulation, tube over shields

1.3 Technical Details.

No of Injectors	1
Gas Connection	½ in BSP Internal thread
Flue Nominal Bore mm (in)	125 (5)
Unitary Fan Motor Details	230 volt 1 phase 50Hz

Table 1. Burner Settings - Natural Gas (G20)

Heater Model	Heat Input kW		Gas Flowrate (m^3/hr)	Injector Pressure (mbar)	Injector Size (mm)	*Size (h x l x w)	*Weight (Kg)	Fan Rating (A)	Fan Type
	Gross	Nett							
VSXO20UT	20.0	18.0	1.9	9.2	7 x 1.7	445x4120x826	104	1.0	2507
VSXO25UT	25.0	22.5	2.4	10.0	7 x 1.9	445x4120x826	104	1.0	2507
VSXO30UT	32.0	28.8	3.1	11.5	7 x 2.1	445x5955x826	142	1.0	2507
VSXO35UT	36.0	32.4	3.5	11.5	7 x 2.3	445x5955x826	142	0.5	2560
VSXO40UT	40.0	36.0	3.8	11.0	7 x 2.7	445x5955x826	142	0.5	2560
VSXO45UT	44.0	39.6	4.2	11.6	7 x 2.9	445x7760x826	182	0.5	2560
VSXO50UT	48.0	43.2	4.6	12.8	7 x 2.5L	445x7760x826	182	0.5	2560
VSO15UT	15.0	13.5	1.4	10.2	7 x 1.3	298x4049x826	97	0.5	2501
VSO20UT	20.0	18.0	1.9	11.0	7 x 1.5	298x4049x826	97	0.5	2501
VSO25UT	25.0	22.5	2.4	9.2	7 x 1.8	298x4049x826	97	0.5	2501
VSO30UT	32.0	28.8	3.1	10.8	7 x 2.0	298x5884x826	135	1.0	2507
VSO35UT	36.0	32.4	3.5	9.0	7 x 2.3	298x5884x826	135	0.5	2560
VSO40UT	40.0	36.0	3.8	8.0	7 x 2.7	298x5884x826	135	0.5	2560
VSO45UT	44.0	39.6	4.2	8.9	7 x 2.9	298x7689x826	175	0.5	2560
VSO50UT	48.0	43.2	4.6	9.1	7 x 2.5L	298x7689x826	175	0.5	2560

Heater Model	Heat Input kW		Gas Flowrate (m^3/hr)	Injector Pressure (mbar)	Injector Size (mm)	*Size (h x l x w)	*Weight (Kg)
	Gross	Nett					
VSO15UH	15.0	13.5	1.4	10.2	7 x 1.3	298x4049x826	97
VSO20UH	20.0	18.0	1.9	11.0	7 x 1.5	298x4049x826	97
VSO25UH	25.0	22.5	2.4	9.2	7 x 1.8	298x4049x826	97
VSO30UH	32.0	28.8	3.1	10.8	7 x 2.0	298x5884x826	135
VSO35UH	36.0	32.4	3.5	9.0	7 x 2.3	298x5884x826	135
VSO40UH	40.0	36.0	3.8	8.0	7 x 2.7	298x5884x826	135
VSO45UH	44.0	39.6	4.2	8.9	7 x 2.9	298x7689x826	175
VSO50UH	48.0	43.2	4.6	9.1	7 x 2.5L	298x7689x826	175

Note* For Optima heaters fitted with decorative end mouldings, Length increases by a further 1056mm, weight increases by 6Kg

Table 2. Induced VSO Herringbone Settings - Natural Gas (G20)

Heater Model	Cold HB Pressure		Hot HB Pressure	
	mm H_2O	mbar	mm H_2O	mbar
VSO15UH	14.3	1.4	10.2	1.0
VSO20UH	18.4	1.8	10.2	1.0
VSO25UH	25.5	2.5	17.3	1.7
VSO30UH	14.3	1.4	10.2	1.0
VSO35UH	22.4	2.2	16.3	1.6
VSO40UH	20.4	2.0	17.3	1.7
VSO45UH	33.6	3.2	22.4	2.2
VSO50UH	33.6	3.2	22.4	2.2

Table 3. Flue details - Natural Gas (G20)

Heater Model	Mass Flow Rate of Flue Gasses (kg/s)	Flue Pressure (Pa) Max Flue Resistance	Flue Gas Temp (°C)
VSXO20UT	0.0130	19	185
VSXO25UT	0.0139	13	205
VSXO30UT	0.0165	33	180
VSXO35UT	0.0167	7.5	185
VSXO40UT	0.0183	35	220
VSXO45UT	0.0210	31	185
VSXO50UT	0.0224	10	195
VSO15UT	0.0114	6	165
VSO20UT	0.0125	19	190
VSO25UT	0.0137	28	225
VSO30UT	0.0189	29	205
VSO35UT	0.0207	24	235
VSO40UT	0.0253	28	240
VSO45UT	0.0253	26	210
VSO50UT	0.0257	27	220

Tables 4. Burner Settings - Propane Gas (G31)

Heater Model	Heat Input kW		Flowrate (l/hr)	Injector Pressure (mbar)	Injector Size (mm)	*Size (h x l x w)	*Weight (Kg)	Fan Rating (A)	Fan Type
	Gross	Nett							
VSO15UT	15.0	13.9	2.18	13.5	7 x 1.0	298x4049x826	97	0.5	2501
VSO20UT	20.0	18.5	2.88	12.4	7 x 1.2	298x4049x826	97	1.0	2507
VSO25UT	25.0	23.1	3.60	13.3	7 x 1.3	298x4049x826	97	1.0	2507
VSO30UT	32.0	29.6	4.60	22.5	7 x 1.3	298x5884x826	135	0.5	2560
VSO35UT	36.0	33.3	5.12	22.4	7 x 1.4	298x5884x826	135	0.5	2560
VSO40UT	40.0	37.0	5.68	18.4	7 x 1.5	298x5884x826	135	0.5	2560
VSO45UT	44.0	40.7	6.25	14.9	7 x 1.7	298x7689x826	175	0.5	2560
VSO50UT	48.0	44.4	6.82	14.3	7 x 1.8	298x7689x826	175	0.5	202126

Heater Model	Heat Input kW		Flowrate (l/hr)	Injector Pressure (mbar)	Injector Size (mm)	*Size (h x l x w)	* Weight (Kg)
	Gross	Nett					
VSO15UH	15.0	13.9	2.18	13.5	7 x 1.0	298x4049x826	97
VSO20UH	20.0	18.5	2.88	12.4	7 x 1.2	298x4049x826	97
VSO25UH	25.0	23.1	3.60	13.3	7 x 1.3	298x4049x826	97
VSO30UH	32.0	29.6	4.60	22.5	7 x 1.3	298x5884x826	135
VSO35UH	36.0	33.3	5.12	22.4	7 x 1.4	298x5884x826	135
VSO40UH	40.0	37.0	5.68	18.4	7 x 1.5	298x5884x826	135
VSO45UH	44.0	40.7	6.25	14.9	7 x 1.7	298x7689x826	175
VSO50UH	48.0	44.4	6.82	14.3	7 x 1.8	298x7689x826	175

Note* For Optima heaters fitted with decorative end mouldings, Length increases by a further 1056mm, weight increases by 6Kg

Table 5. Induced VSO Herringbone Settings - Propane Gas (G31)

Model	Cold HB Pressure		Hot HB Pressure	
	mm H_2O	mbar	mm H_2O	mbar
VSO15UH	19.4	1.9	15.3	1.5
VSO20UH	22.4	2.2	17.3	1.7
VSO25UH	24.5	2.4	17.3	1.7
VSO30UH	27.5	2.7	19.4	1.9
VSO35UH	31.6	3.1	20.4	2.0
VSO40UH	38.7	3.8	23.5	2.3
VSO45UH	36.7	3.6	23.5	2.3
VSO50UH	36.7	3.6	28.6	2.8

Table 6. Flue details - Propane Gas (G31)

Heater Model	Mass Flow Rate of Flue Gasses (kg/s)	Flue Pressure (Pa) Maximum Flue Resistance	Flue Gas Temp (°C)
VSO15UT	0.0152	12.5	182
VSO20UT	0.0200	24.9	214
VSO25UT	0.0196	15.0	232
VSO30UT	0.0201	16.2	210
VSO35UT	0.0238	27.4	240
VSO40UT	0.0255	29.9	247
VSO45UT	0.0210	31.4	233
VSO50UT	0.0334	43.6	228

3. Commissioning Instructions.

These appliances should be commissioned by a qualified engineer.

3.1 Tools Required.

The following tools and equipment are advisable to complete the tasks laid out in this manual.

Suitable alternative tools may be used.

Leather Faced Gloves

Pozidrive Screwdriver

Small Flat Head Screwdriver

Large Adjustable Spanners or 22, 26 & 27mm Spanners for fitting Of Gas Flex.

12mm Spanner

4mm Allen Key

Wrench with Extension

13mm Socket

Manometer

3.2 Balancing The Herringbone System

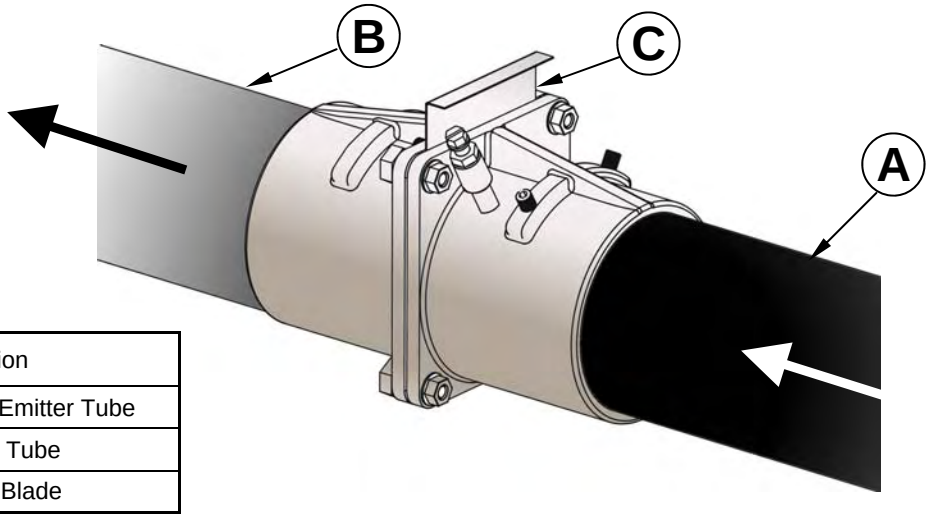
Important. When all the heaters have been installed the vacuum settings must be finally balanced in the hot condition.

Before attempting to start up the heating system it is essential to perform the preliminary balancing of the vacuum level at each burner unit. Isolate each heater unit by unplugging the electrical connector and closing the gas isolating valve.

Start all burners up and allow them to run for at least 20 minutes.

Adjust the damper at exit of each heater using a 4mm Allen key in the damper blade securing screw. Observing the vacuum reading using a 'U' tube manometer connected to the vacuum test point (see over) each damper should be readjusted and set at a hot condition reading as shown in table 6 for the appropriate size of heater and model.

Figure 1. HB Damper Assembly



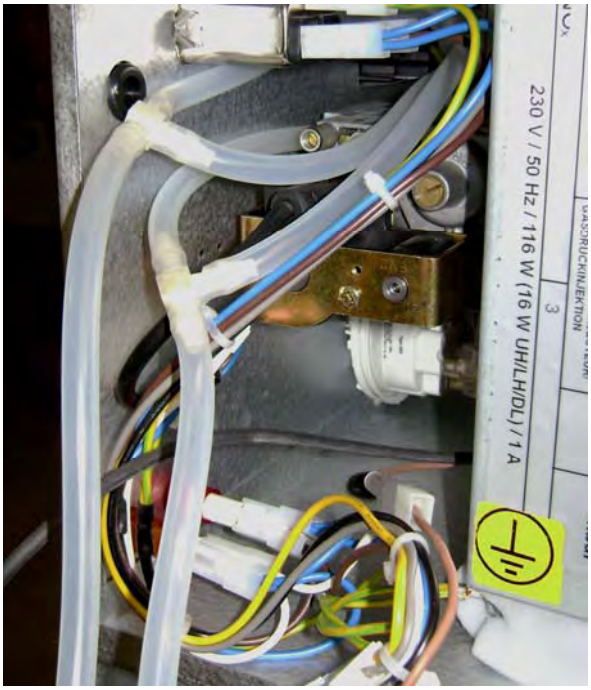
Ref	Description
A	Radiant Emitter Tube
B	Manifold Tube
C	Damper Blade

Slacken screw in burner lid and open the right hand burner access door.

The two vacuum impulse hoses are in view. Both hoses are fitted with ‘T’ pieces, one end of which has a blanking cap.

Remove each blanking cap.

Connect extra sections of hose to each ‘T’ piece.



Connect either a digital manometer or U tube gauge to the open ends of the hoses.

Check reading against technical data.

2.3 Commissioning chart

Check installation has been carried out to these instructions.

Ensure gas and electricity supplies are isolated.

Disconnect gas hose from burner

Remove burner from tube and inspect burner head. (See servicing instructions)

Replace burner on tube and secure.

Reconnect gas hose. Open isolating valve. Check soundness.

Open control housing and check that all components are securely fastened.

Check thermostat is set to maximum and is calling for heat.

Switch on electrical supply. The red neon should now be illuminated. If restarting heater a delay of 15s should be allowed.

Turn off power and check that all components are securely fastened.

The heater should now run through its start up sequence and ignite.

NO

A successful ignition is indicated by the amber light illuminating and remaining illuminated.

Has the burner lit?

YES

Check gas pressure.

Check operation on flame failure. Check gas pressure.

Check operation of air pressure switch.

Close control housing

Leave the instructions with a responsible person.

Figure 2. Gas Valve adjustment

3. Servicing Instructions.

These appliances should be serviced annually by a competent person to ensure safe and efficient operation. In exceptional dusty or polluted conditions more frequent servicing may be required. The manufacturer offers a maintenance service. Details available on request

3.1 Tools Required.

Suitable alternative tools may be used.

The following tools and equipment are advisable to complete the tasks laid out in this manual.

Leather Faced Gloves

Pozidrive Screwdriver

Small Flat Head Screwdriver

Large Adjustable Spanners or 22, 26 & 27mm Spanners for Fitting of Gas Flex.

12mm Spanner

4mm Allen Key

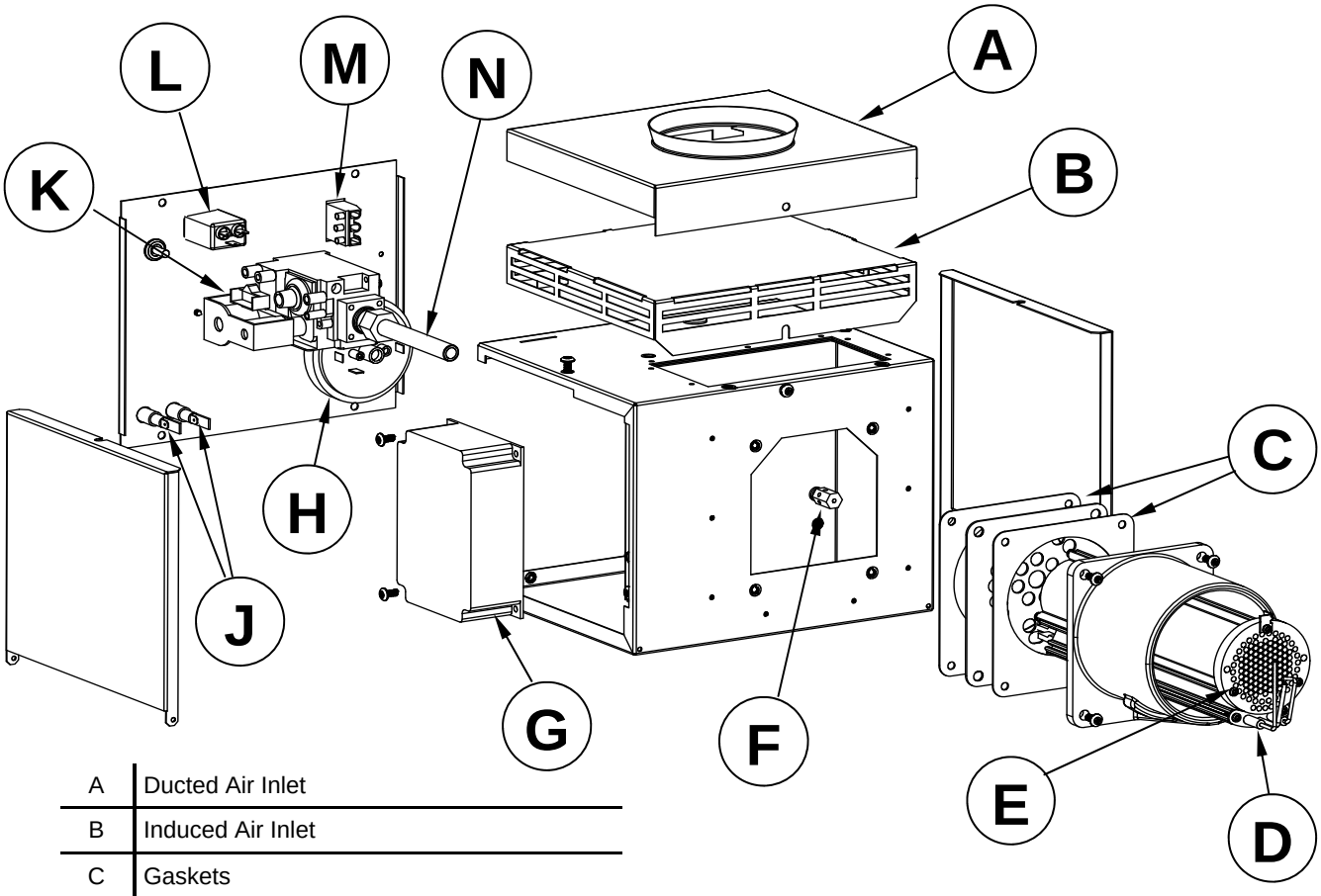
Manometer

Wrench with 13mm Socket

Soft Brush

3.2 Burner Description.

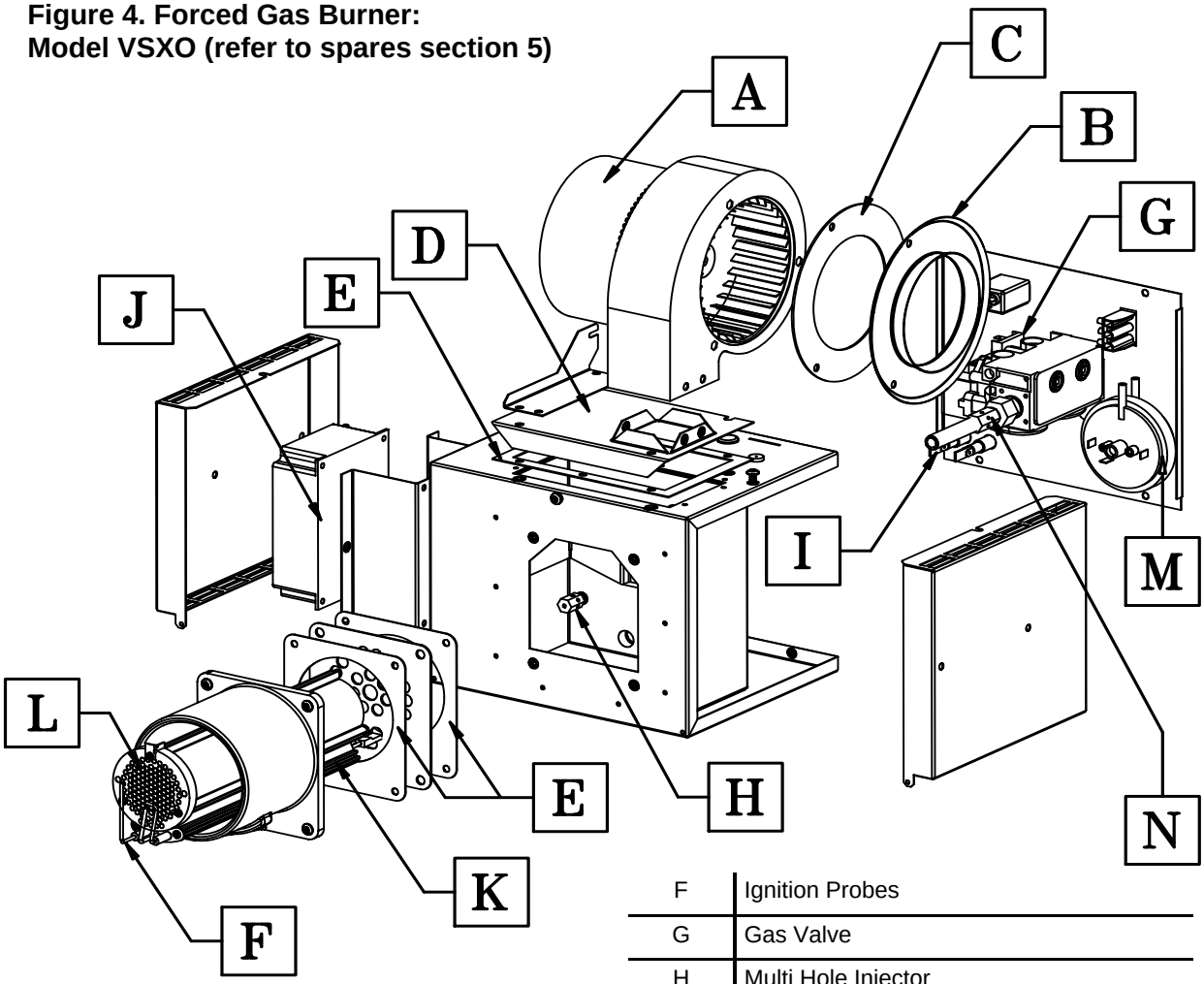
Figure 3. Induced Herringbone Burner: Model VSO UT/UH (refer to spares section 5)



A	Ducted Air Inlet
B	Induced Air Inlet
C	Gaskets
D	Ignitor Assembly
E	Pepperpot Head
F	Multi Hole Injector
G	Ignition Controller
H	Pressure Switch

J	Neon's (Red/Amber)
K	Gas Valve
L	Mains Input Socket
M	Fan Socket
N	Injector Carrier

Figure 4. Forced Gas Burner:
Model VSXO (refer to spares section 5)



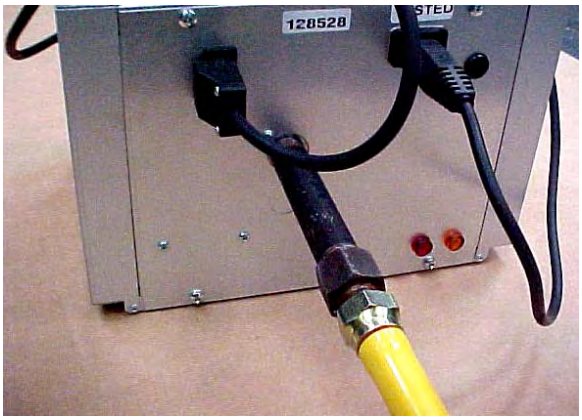
A	2501/2507 or 2560 Fan
B	Fan Inlet Spigot
C	Fan Orifice
D	Fan Mount Plate
E	Fan Mount Plate Gasket
	Please refer to spares for burner components

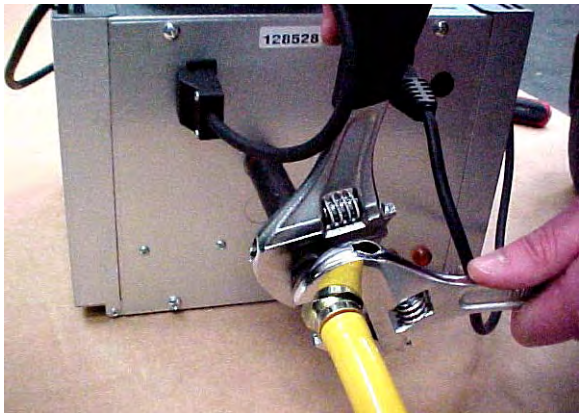
F	Ignition Probes
G	Gas Valve
H	Multi Hole Injector
I	Neon's (Red/Amber)
J	Ignition Controller
K	Extrusion Burner Head
L	Pepperpot Head
M	Pressure Switch
J	Jet Carrier

3.3 Burner Removal (All Options)

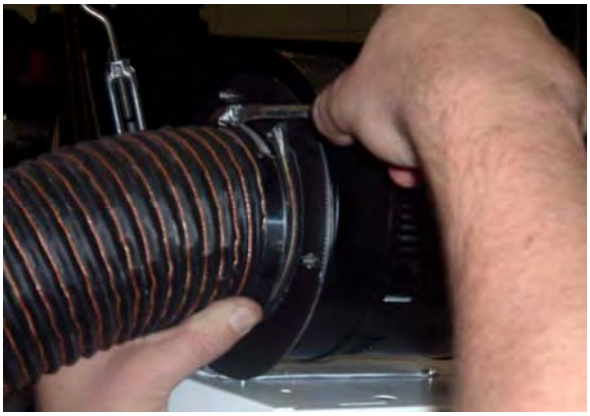
Step 1 Isolate mains electric and gas supplies.

Step 2 Detach the gas supply as shown below, taking care to support the burner connection.





Step 3 On forced burners with ducted air attachment, slacken jubilee clip and remove flexible hose from the fan.

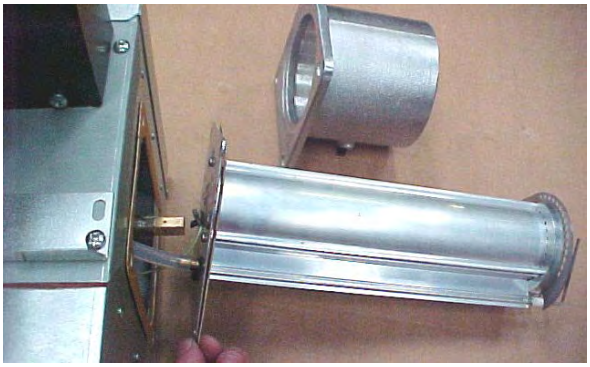


Step 4 Slacken both grub screws on the burner support casting using a 4mm Allen key to enable the burner to be removed from the radiant tube.

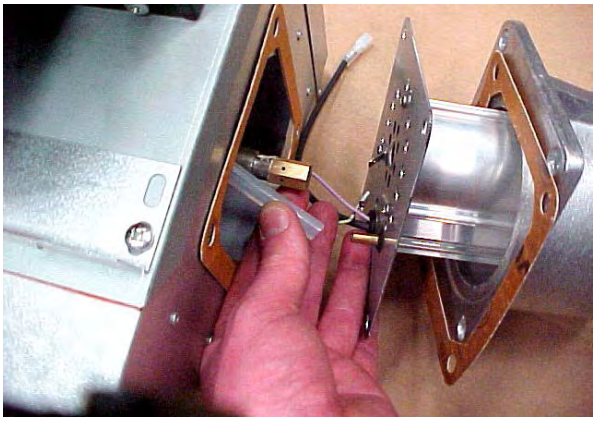
Step 5 Carefully remove the burner to prevent it or any components from falling to the ground and position the assembly in a safe area.

3.4 Burner Gas Injector Servicing

Step 1 Remove the burner support casting and gasket.



Step 2 The burner head assembly can be disconnected by separating the connectors of the ignition lead assembly and removing the pressure switch silicon tube.



Step 3 The gas injector can be inspected and replaced if contaminated or blocked.

When replacing the gas injector use a 12mm spanner and ensure approved thread sealant is used.

Step 4 Refit the burner support casting and replace the gaskets to ensure effective sealing.

3.5 Burner Head and Electrode Servicing

Step 1 Check the pepper pot burner head for contamination. If necessary the head can be removed for cleaning of the inside of the burner head, see below.

Step 2 The pepper pot burner head can be replaced ensuring the 5 holes on the outer ring are aligned alongside the probes.

Step 3 The condition of the ignitor assembly can be checked for deterioration. However, we advise replacement at each service to ensure continued reliability.

Step 4 Detach the electrode assembly from the burner head by removing the two screws and separating the ignitor lead connectors.

Step 5 Check the positions and spark gap as shown below.

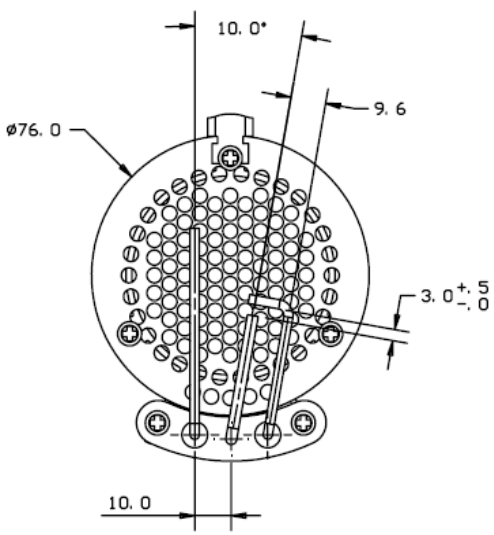
Step 6 The burner assembly is ready to refit after servicing the combustion fan and the radiant tube assembly.

3.6 Combustion Fan Assembly Unitary heaters

Step 1 Loosen the clamp fitting on the flue

Step 2 Loosen the 4mm grub screw and de-tatch the combustion fan.

Step 3 Remove the fan orifice plate spinning.



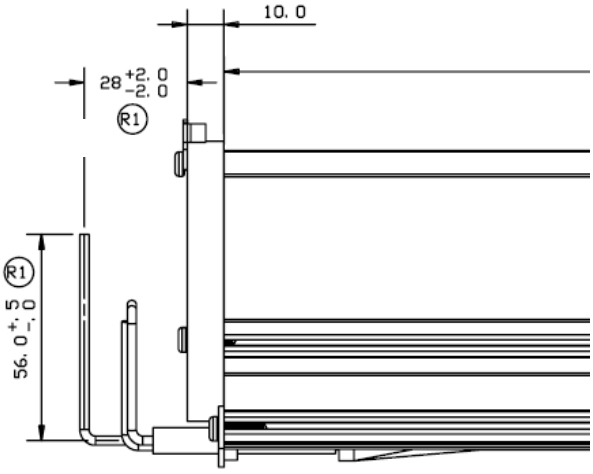


Figure 5. Burner head detail

Step 4 Inspect the impeller and remove any dust with a soft brush.

Step 5 Remove any dust from fan scroll and from around the motor.

Step 6 Ensure the impeller rotates freely.

Step 7 Refit components.

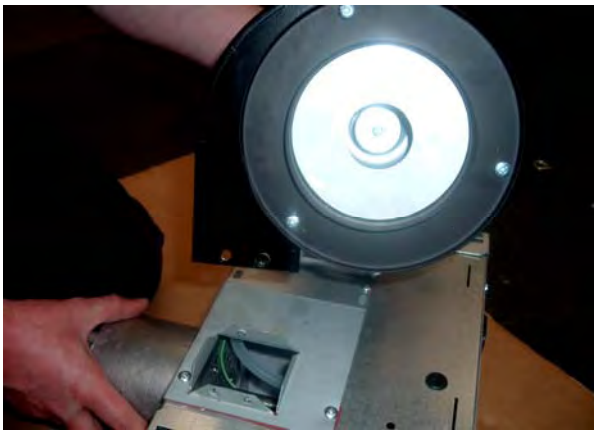
3.7 Combustion Fan Assembly Powered Burner

Step 1 Slacken jubilee clip and remove the flexible hose from the fan.

Step 2 Remove fan fixings.

Step 3 The combustion fan can now be detached.

Step 4 Remove the fan orifice plate spinning.



Step 5 Inspect the impeller and remove any dust with a soft brush.

Step 6 Remove any dust from fan scroll and from around the motor.

Step 7 Ensure the impeller rotates freely.

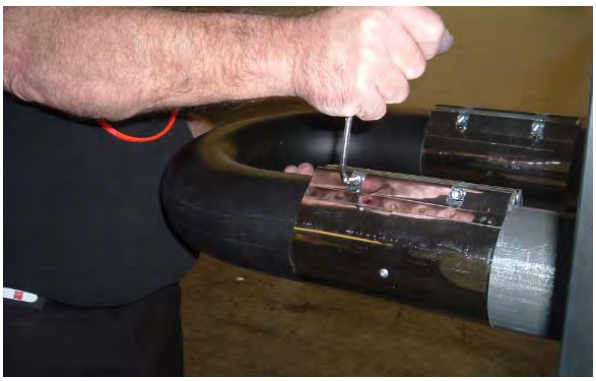
Step 8 Refit components.

3.8 Radiant Tube Servicing

Step 1 Brush any dust from the exterior of the tubes.

Step 2 Inspect the fan and burner tubes visually. If the tubes appear clean, skip to servicing the reflector.

Step 3 Remove the U bend



Step 4 Withdraw the turbulators from the appliance. Carefully noting their condition and position. Replace turbulators if necessary.

Step 5 The turbulators should be cleaned with a soft brush.

Step 6 If required the interior of the tubes can then be cleaned using an industrial vacuum cleaner or by using long poles and a scraper.

Step 7 Refit components.

3.9 Heat Exchanger Servicing

Step 1 Remove the flue connections.

Step 2 Slacken casing support screws and remove heat exchanger from the radiant tube.

Step 3 Remove any dust and dirt from the heat exchanger & refit.

3.10 Reflector Servicing

The condition of the reflectors should be noted. If necessary the reflectors can be cleaned with a mild detergent.

This can significantly improve the efficiency of the appliance.

3.11 Inspection of Flue

The flue needs to be inspected and cleaned if necessary or in accordance to the regulations of the country that the appliance is installed.

3.12 Re-commissioning After Service

After servicing of the heater has been undertaken, it will be necessary to re-commission the heater as detailed in Section 2 of these instructions.

4. Spare Parts.

Required Spares (refer to section 4.2)

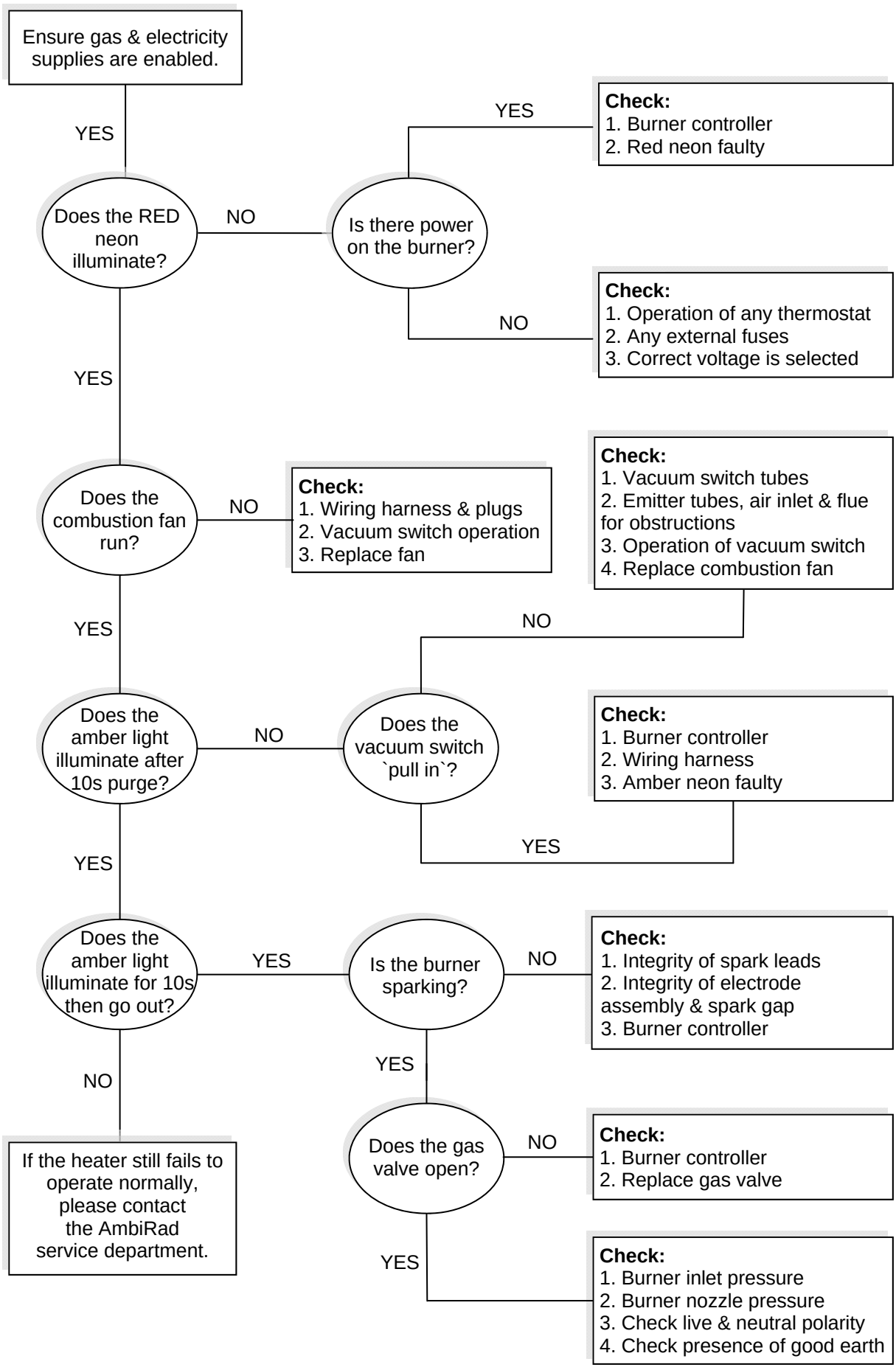
In order to aid troubleshooting and servicing we recommend that the components shown in this section should be stocked.

Note Any spare part components that are not approved by AmbiRad could invalidate the approval of the appliance and validity of the warranty.

Item	Description	Part No.
	Ignition Controller	2015S
	Twin Gas Valve: Nat Gas Propane	 201587 201914
	Pepperpot Head	200988
	Ignitor Assembly	201284
	Extruded Burner Head	200358
	Injector	See section 1.11
	Gasket Set	201488
	Ducted Air Hose	201321
	Hose Clamp	7541

Item	Description	Part No.
	Pressure Switch: VSXO (Red) VSO (Green)	 201676 201508
	Amber Neon (Burner On)	2175
	Red Neon (Mains On)	2180
	Combustion Fan	See Section 1.11
	Jet Carrier	200420
	Jet Carrier *(VSO / VSXO50 NG)*	201630
	Flame Plates: *(VSO15/20/25 NG & VSXO20/25 NG)* *(VSO15/20/25/30 Propane)* *(VSO35/40/45/50 Propane)*	 201854 201571 201905
	Cables: Spark Electrode *(black)* Rectification lead *(purple)* Earth lead *(green/yellow)* *GV Mini Harness*	 900225-2 900225-3 900225-1 900375

5. Fault Finding Guide.

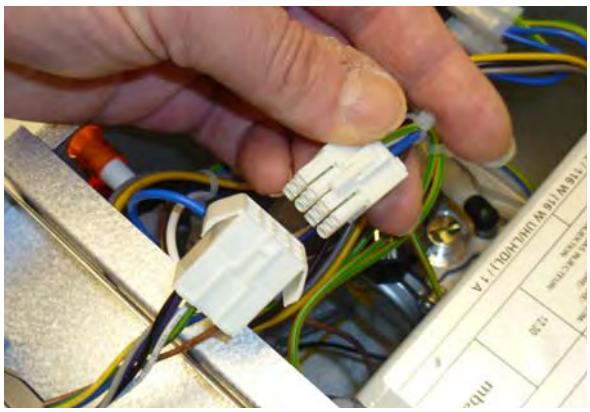


6. Replacing Parts.

6.1.1 Burner Controller Replacement (VSXO)

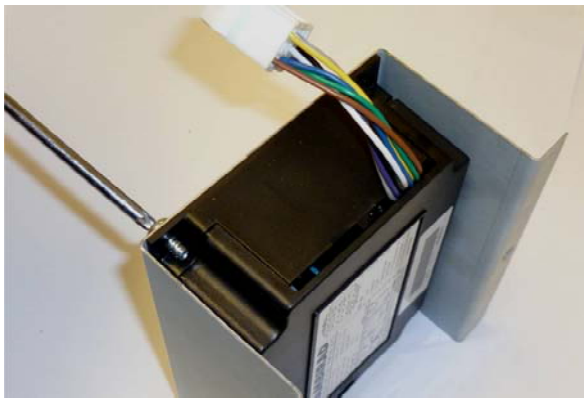
Step 1 Slacken screw in burner lid and open the right hand burner access door.

Step 2 Undo 2 screws from controller bracket and remove. Disconnect burner controller from the wiring harness.



Step 3 Disconnect the HT Lead from burner controller.

Step 4 Remove the four screws attaching the controller to the bracket and remove.



Step 5 Fit new burner controller

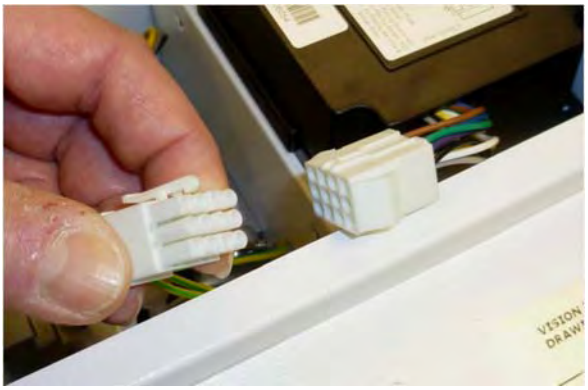
Step 6 Refit HT leads and refit burner controller to wiring harness.

Step 7 Test product and close access doors.

6.1.2 Burner Controller Replacement (VSO)

Step 1 Slacken screw in burner lid and open the right hand burner access door.

Step 2 Disconnect burner controller from the wiring harness.



Step 3 Disconnect the HT Lead from burner controller.

Step 4 Remove the two screws attaching the controller to the burner and remove.

Step 5 Fit new burner controller

Step 6 Refit HT leads and refit burner controller to wiring harness.

Step 7 Test product and close access door.

6.2 Air Pressure Switch Replacement

Step 1 Disconnect the two silicone impulse tubes and three wiring connections making note of replacement positions.

Step 2 Remove the two screws as shown below.

Step 3 The air pressure switch can now be removed.

Step 4
Fit the new air pressure switch ensuring the impulse tubes are connected as shown below.

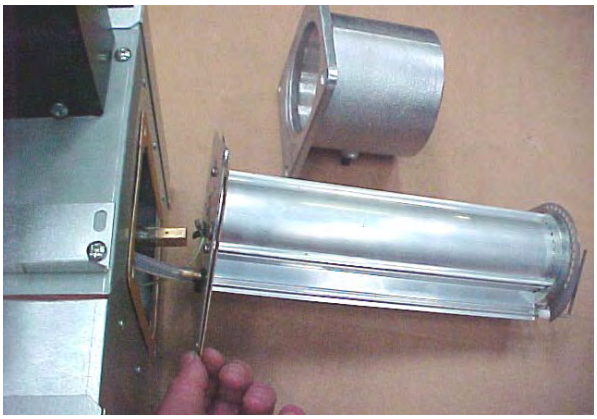
Step 5
Test product and close access doors.

6.3 Gas Valve Replacement

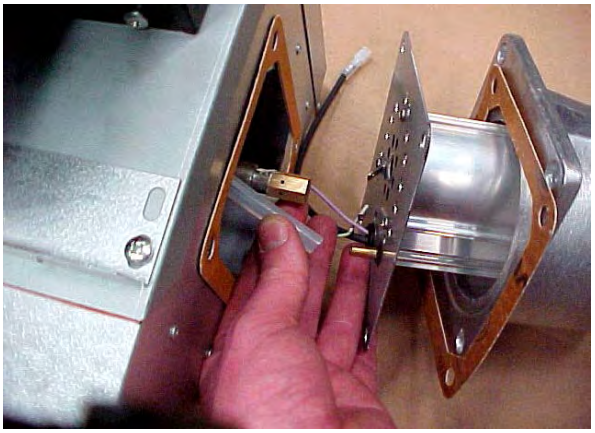
Step 1 Remove the burner assembly as described in the section 3.3 Servicing.

Step 3 Open the left hand access door and detach the impulse hoses from the air pressure switch.

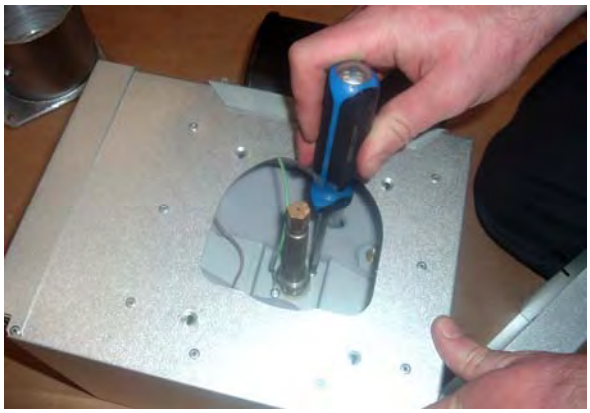
Step 4 Remove the 4 screws holding the burner head onto the burner assembly.



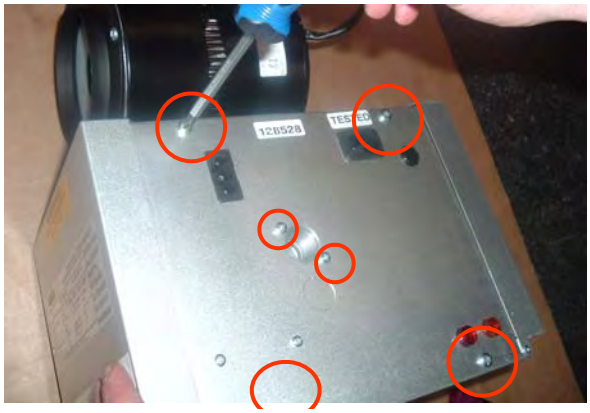
Step 5 The burner head can now be detached by disconnecting the impulse tube and the burner head wiring.



Step 6 Detach the two screws holding the front of the gas valve.



Step 7 Remove the four screws holding the rear burner plate in position plus the two screws from the gas valve flange.



Step 8 Remove the rear plate.

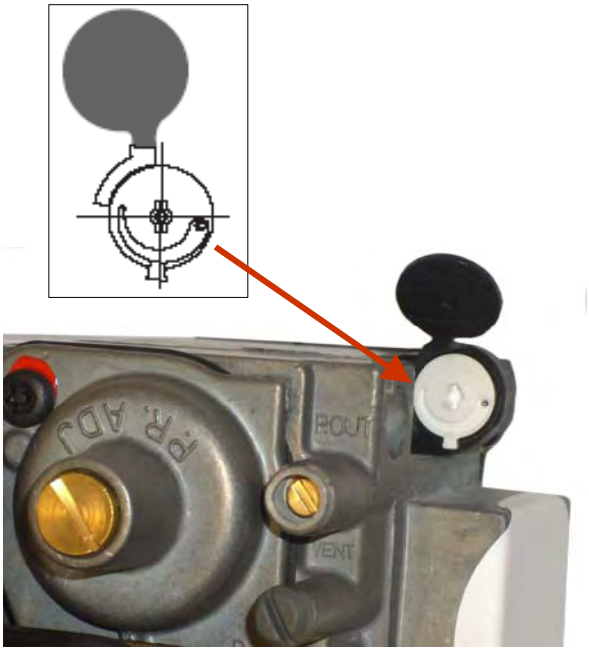
Step 9 The jet carrier, gas inlet, and wiring harness can now be detached from the gas valve.

Step 10 The two screws retaining the gas valve can then be removed.

Step 11 The gas valve can now be replaced.

Step 12 Refit all components in reverse order.

Step 13 (For Natural Gas burners ONLY). Ensure step screw is in the correct position as indicated in the diagram below.



Step 14 Set gas pressures to data badge or as per section 1.11 and ensure reliable burner performance.

Step 15 Test product and close access doors.

7. User & Operating Instructions.

7.1 To Start the Heater

1. Ensure gas supply is turned on.

2. Electrical supply to the controls is on.

3. Ensure that the controls are correctly set i.e.;

   - Clock is correctly set.
   - Heater program is correctly set.
   - Required room temp is correctly set

4. Once the heating controller 'calls for heat' power will be supplied to the heater(s). The red neon will then illuminate.

5. After a pre-purge period of 10 seconds the burner will ignite and the amber neon will then illuminate.

6. If lockout occurs press the lockout reset button (if available), or switch off electrical supply and restart after 15 seconds.

7. If lockout occurs three times consecutively switch off and isolate the gas and electricity supplies.

   Contact the AmbiRad Service department.

7.2. To Switch Off Heater

1. Switch off electrical supply to the heater. The burner will stop and the fan will shut off.

2. If the heater is to be switched off for periods in excess of one week it is highly recommended that both the gas and the electrical supplies are turned off.

7.3. Routine Maintenance between Service Intervals

After ensuring that the heater is cold and mains electric isolated, cleaning of the reflectors with a soft cloth and a mild detergent (non solvent based cleaners only) in water can be undertaken.

Additional removal of dust from the radiant tubes, burner and heat exchanger can be undertaken.

7.4 Frequency of Servicing

The manufacturer recommends that to ensure continued efficient and safe operation of the appliance, the heater is serviced annually by a competent person e.g. every year in normal working conditions but in exceptional dusty or polluted conditions more frequent servicing may be required.

The manufacturer offers a maintenance service.

Details are available on request.

For Service requirements, please contact AmbiRad.

For further technical and service support visit our Support Information Database at www.s-i-d.co.uk

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